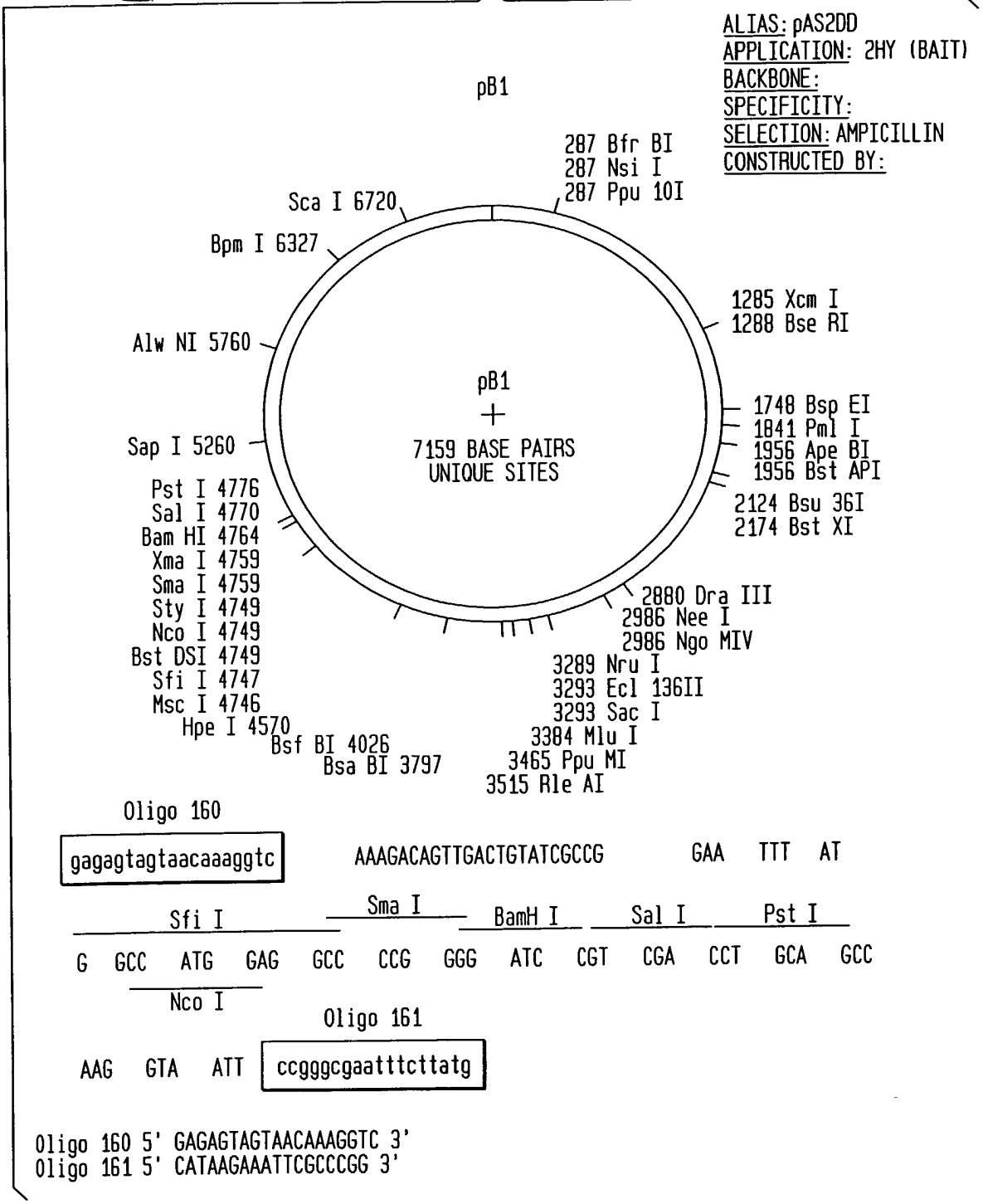
FIG. 1



Oligo 160 5' GAGAGTAGTAACAAAGGTC 3'
Oligo 161 5' CATAAGAAATTCGCCCGG 3'

FIG. 2

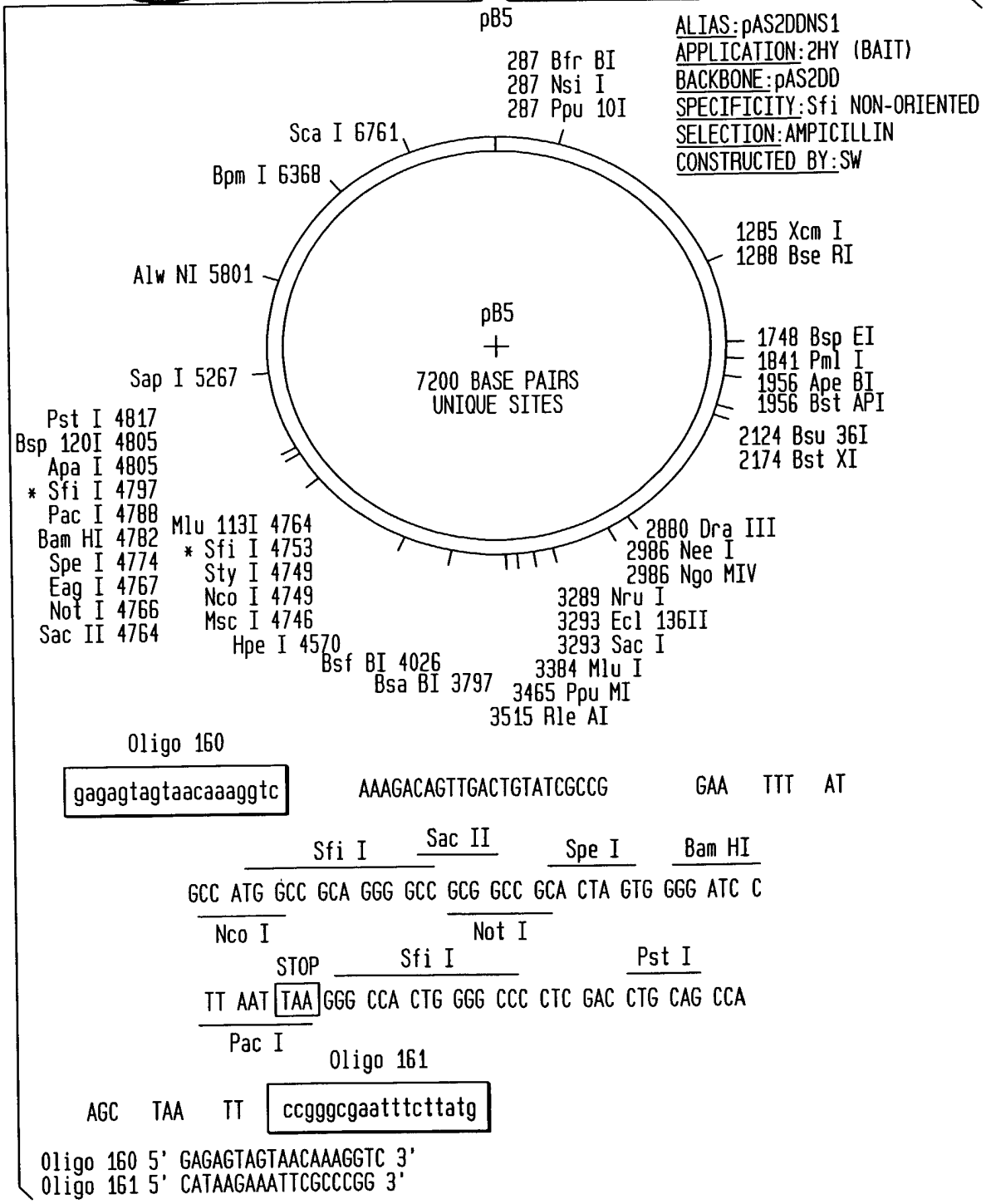


FIG. 3

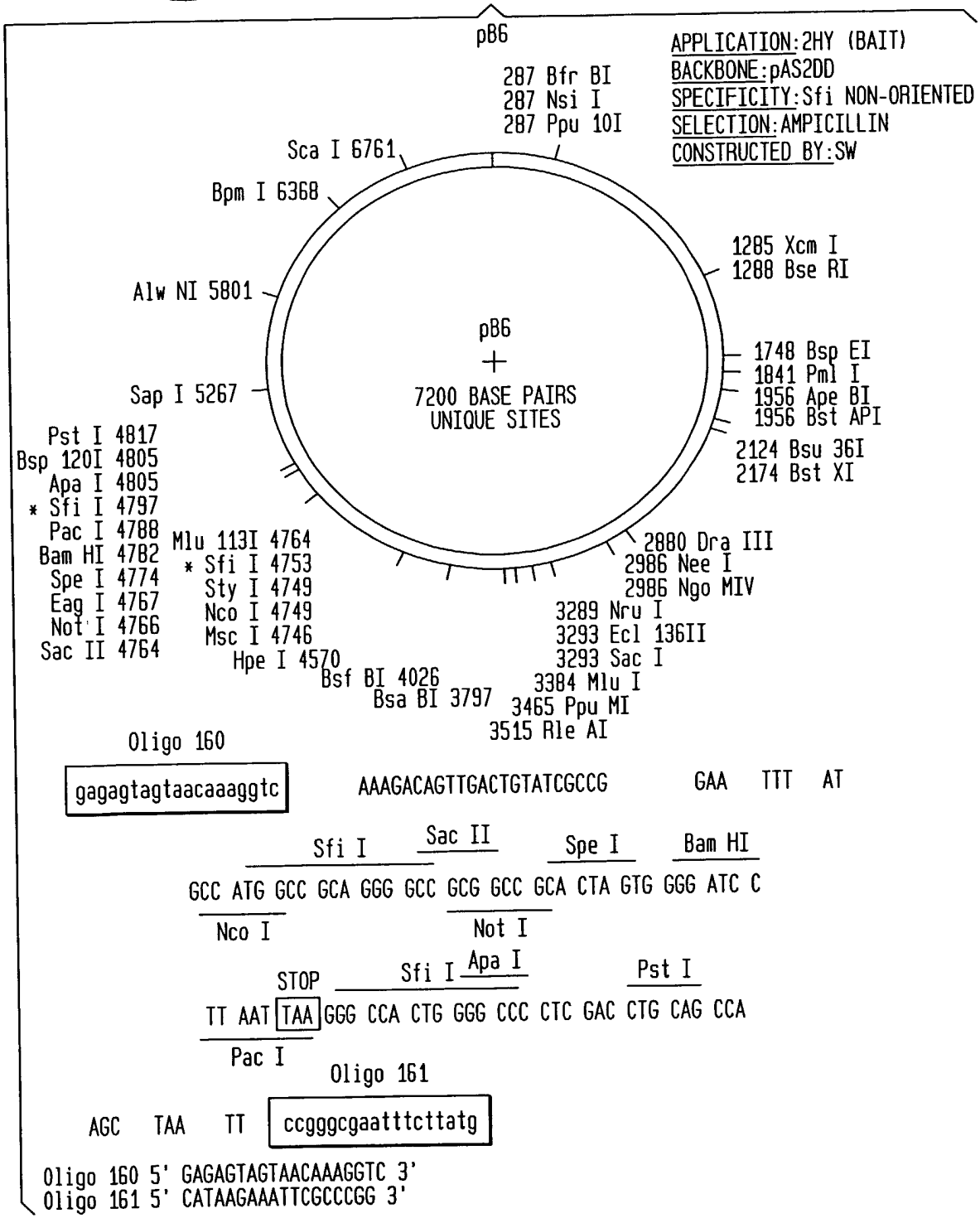


FIG. 4

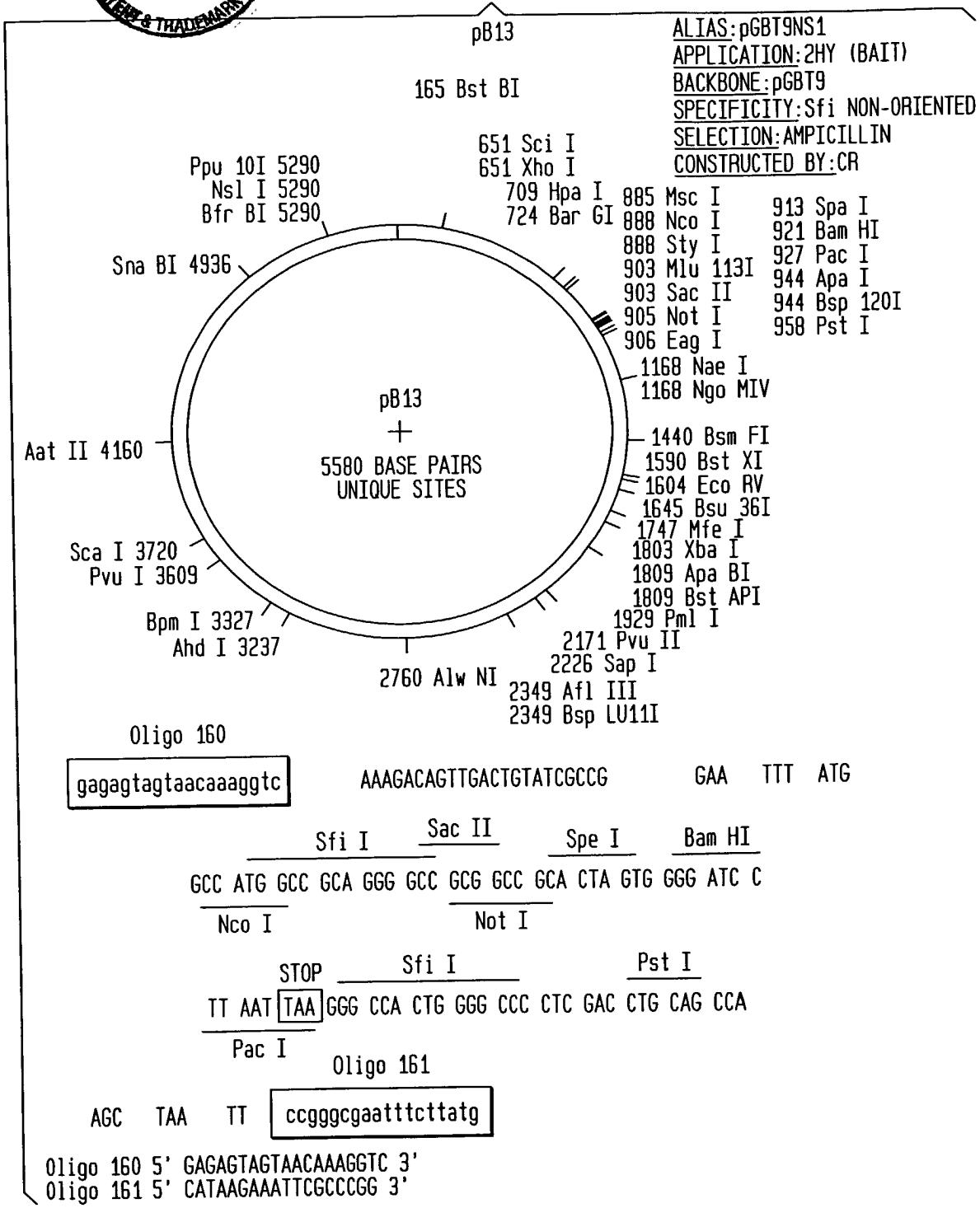


FIG. 5

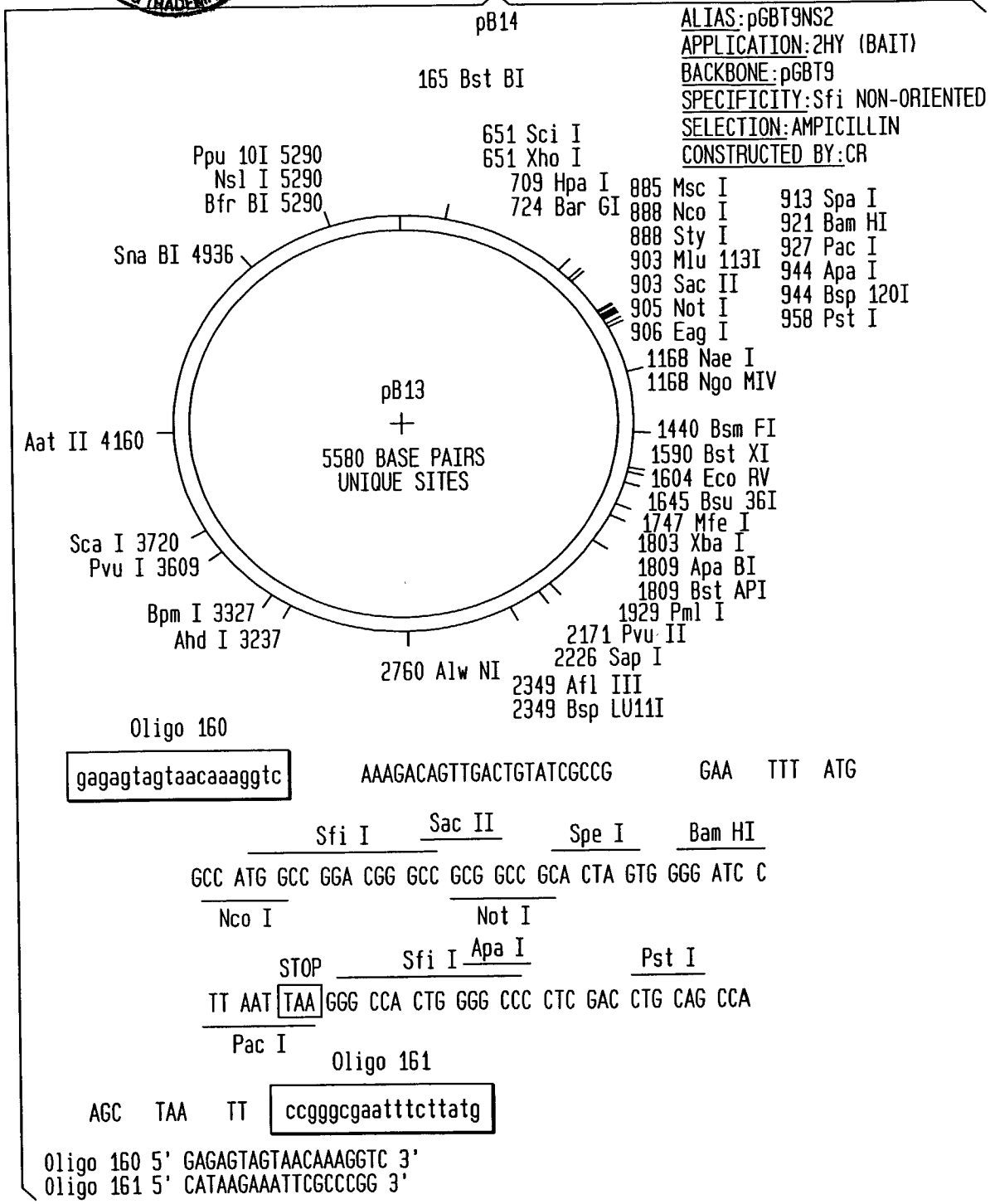


FIG. 6

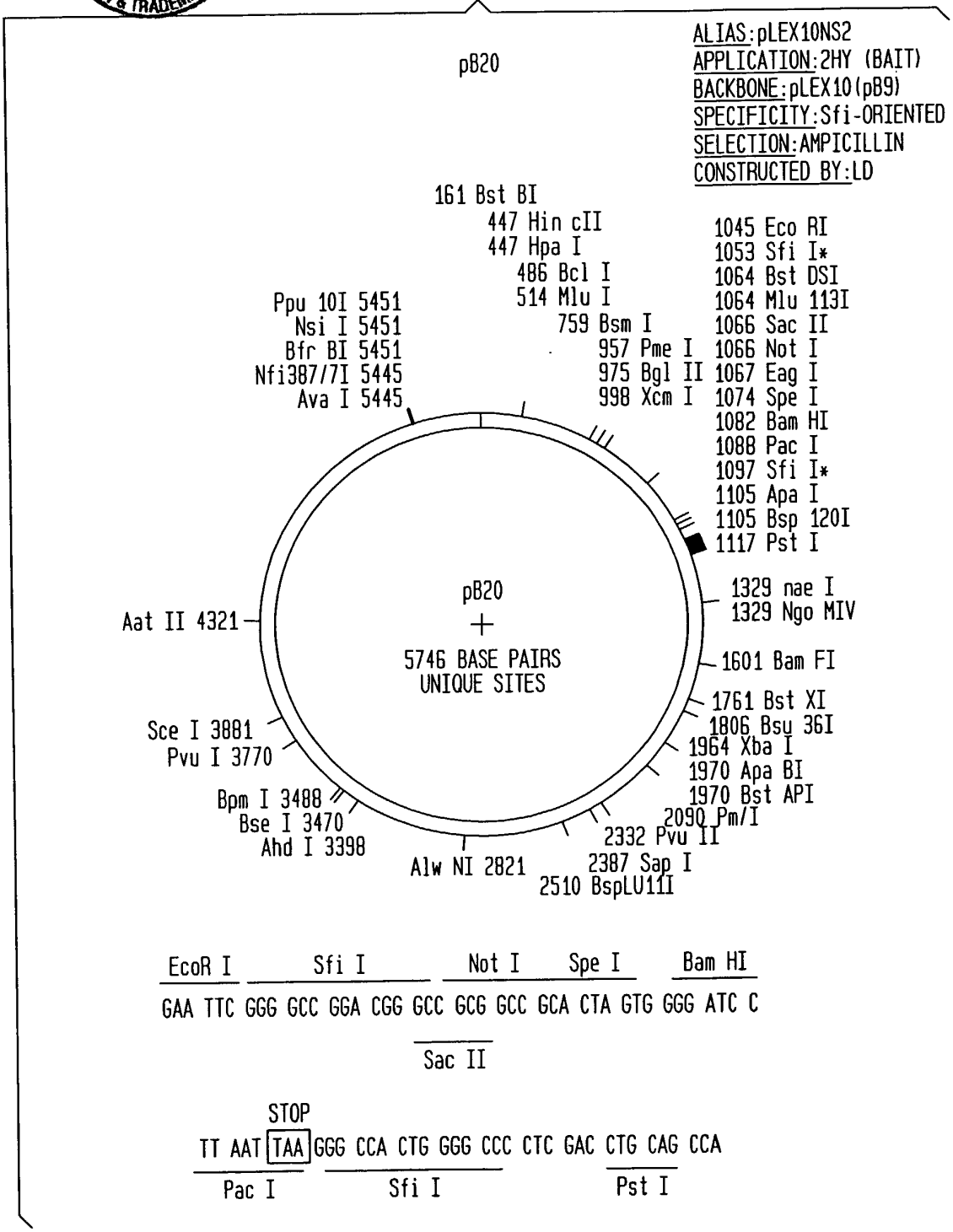
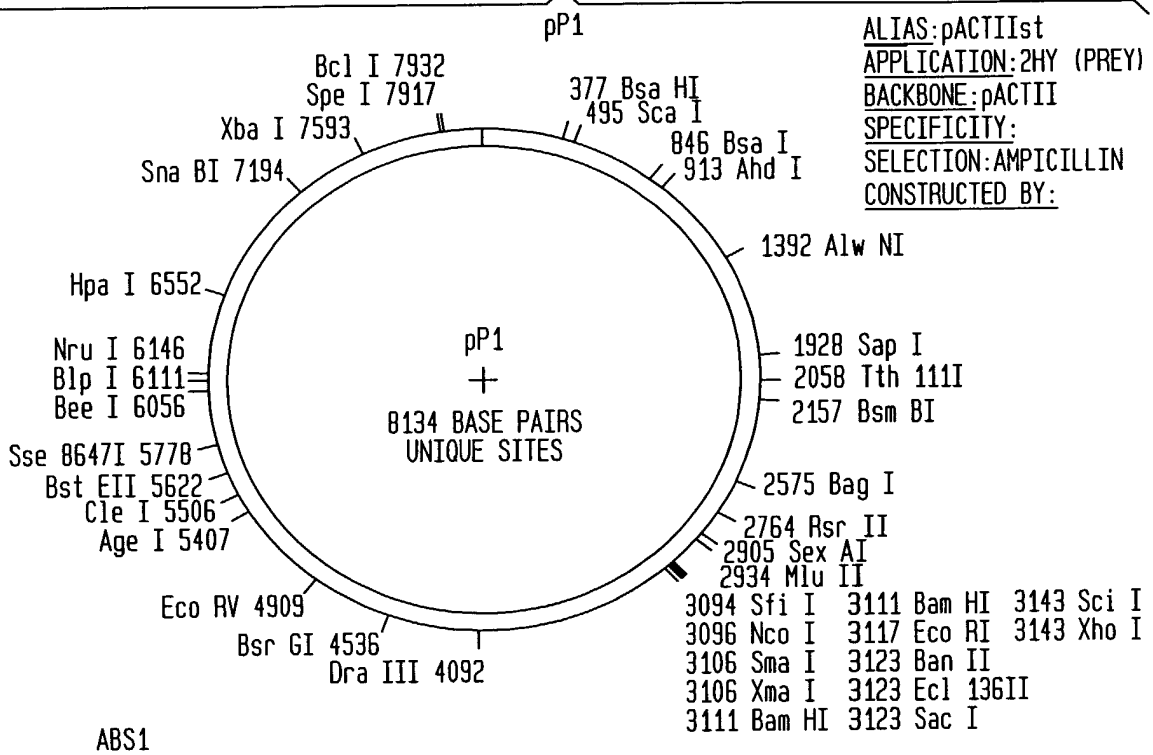


FIG. 7



ABS1

cgtttggaatcacagg GATGTTTAATACCACTACAATGGATGATGTATATAACTATCTATT

JC90

cgatgatgaagataccccaccaaa

Bgl II

CCCAAAAAAAAGAGATCTGTATGGCTTACCCATACGATGTTCCAG

Sfi I Sma I BamH I

ATTACGCTAGCTTGGGTGGTCATATGGCCATGGCC ATG GAG GCC CCG GGG ATC CGA ATT

Nco I

Sac I Xho I Bgl II

CGA GCT CGA CTA GCT AGC TGA CTC GAG AGA TCT ATGAAT

cgtagatactgaaaaacccc GCAAGTT cacttcaactgtgcatcgtg caccatctcaatttc

162 ABS2 53

ABS1 5' CGTTTGGAATCACTACAGG 3'
JC90 5' CGATGATGAAGATACCCCACCAAA 3'
162 5' GGGGTTTTTCAGTATCTACG 3'
ABS2 5' CACGATGCACAGTTGAAGT 3'
53 5' GAAATTGAGATGGTGCACGATGCAC 3'

FIG. 8

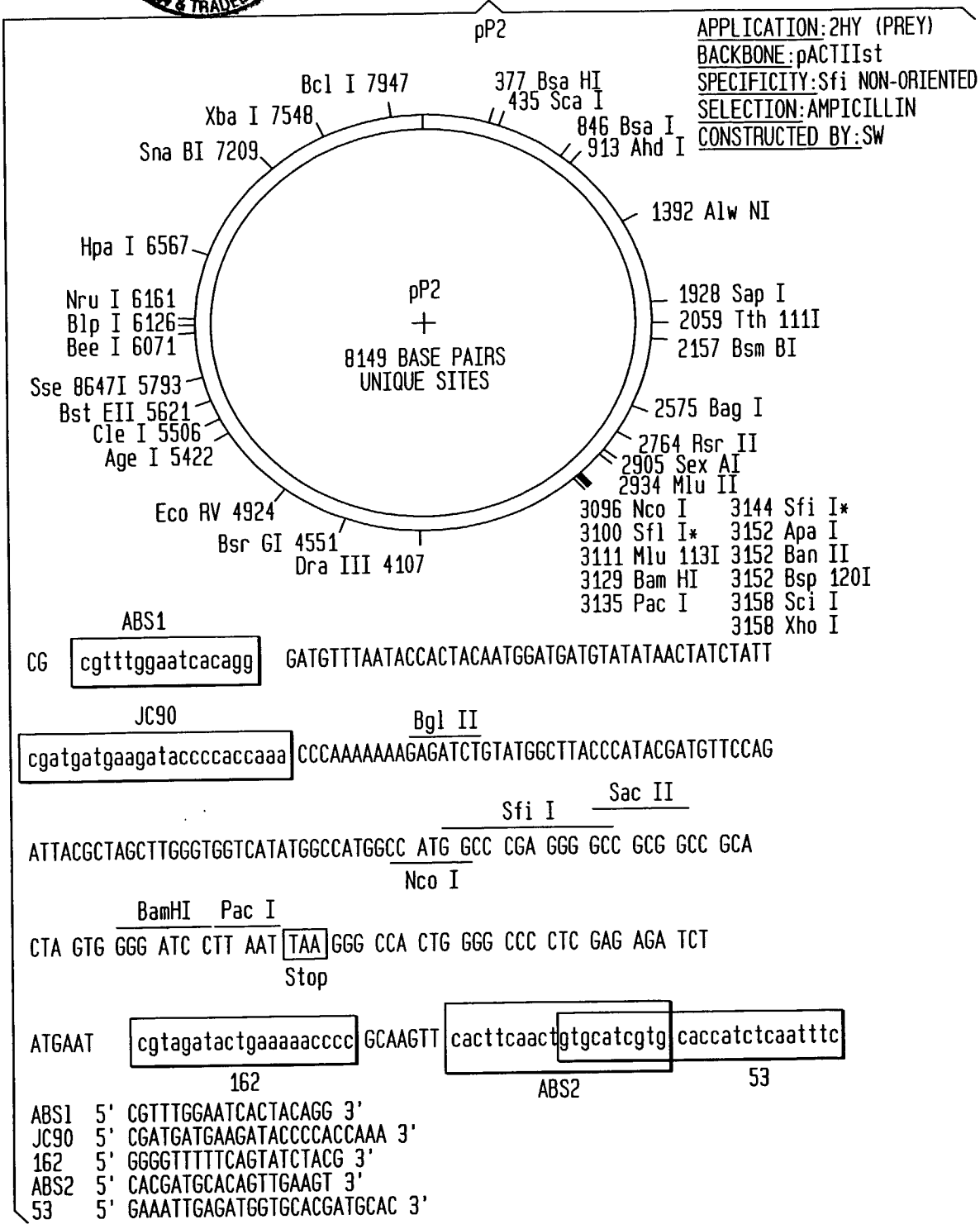
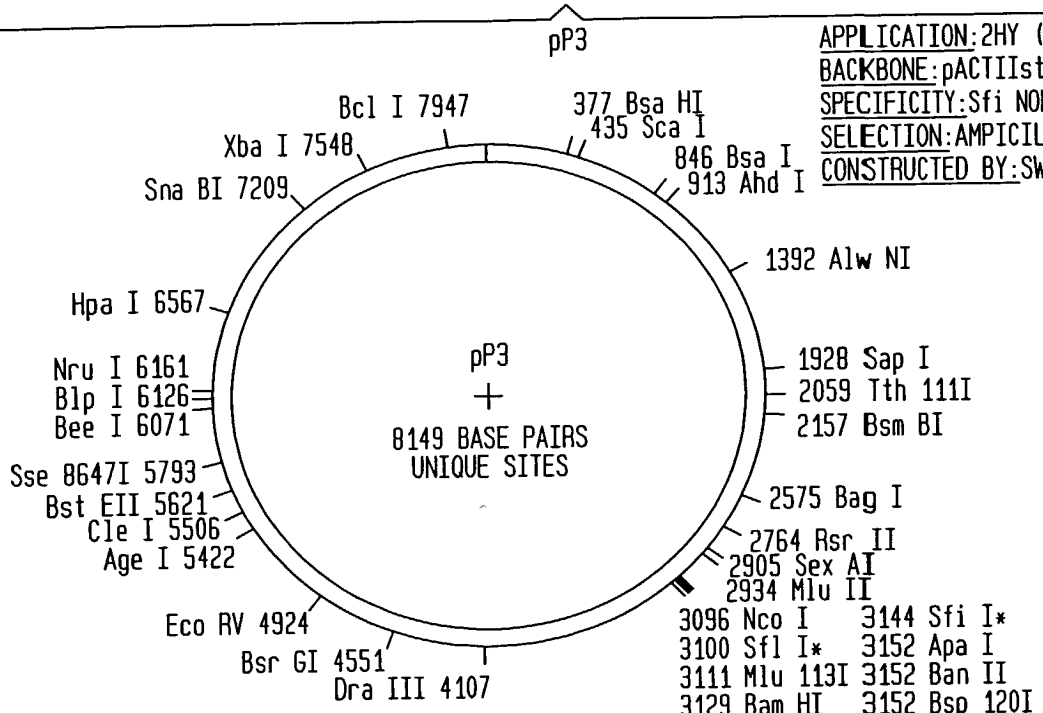


FIG. 9



ABS1

CG cgtttggaatcacagg GATGTTTAATACCACTACAATGGATGATGTATATAACTATCTATT

JC90

cgatgatgaagataccccaccaaa CCCAAAAAAAAGAGATCTGTATGGCTTACCCATACGATGTTCCAG

Bgl II

Sfi I Sac II

ATTACGCTAGCTTGGGTGGTCATATGGCCATGGCC ATG GCC CGA GGG GCC GCG GCC GCA

Nco I

BamHI Pac I

CTA GTG GGG ATC CTT AAT TAA GGG CCA CTG GGG CCC CTC GAG AGA TCT

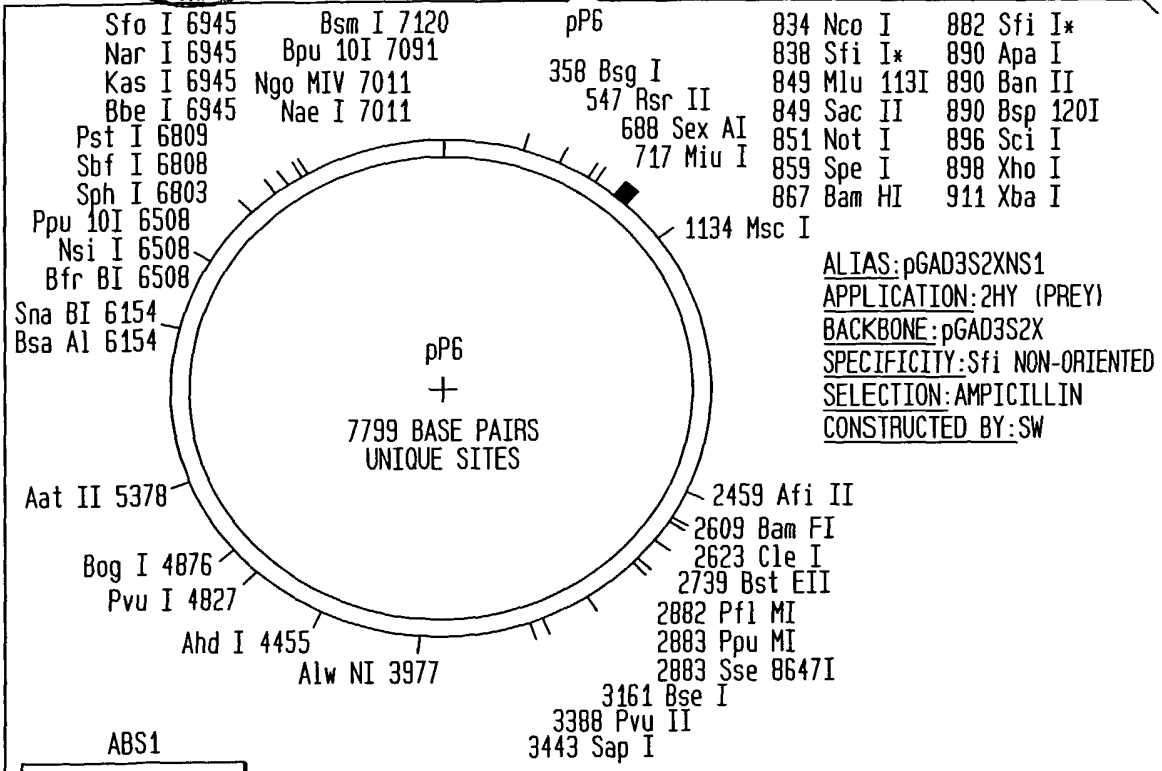
Stop

ATGAAT cgtagatactgaaaaacccc GCAAGTT cacttcaactgtgcatcgtg caccatctcaatttc

162 ABS2 53

ABS1 5' CGTTTGGAATCACTACAGG 3'
JC90 5' CGATGATGAAGATACCCCACCAAA 3'
162 5' GGGGTTTTTCAGTATCTACG 3'
ABS2 5' CACGATGCACAGTTGAAGT 3'
53 5' GAAATTGAGATGGTGCACGATGCAC 3'

FIG. 10



ABS1

cgtttggaatcacagg GATGTTTAATACCACTACAATGGATGATGTATATAACTATCTATT

JC90

cgatgatgaagataccccaccaaa CCCAAAAAAAAGAGATCCTAGAACTA

Sfi I Sac II Spe I Bam HI

GCC ATG GCC GCA GGG GCC GCG GCC GCA CTA GTG GGG ATC C

Nco I Not I

STOP Sfi I Xho I Xba I

TT AAT TAA GGG CCA CTG GGG CCC CTC GAG TAG CTA GTG TCT AGA

STOP STOP STOP

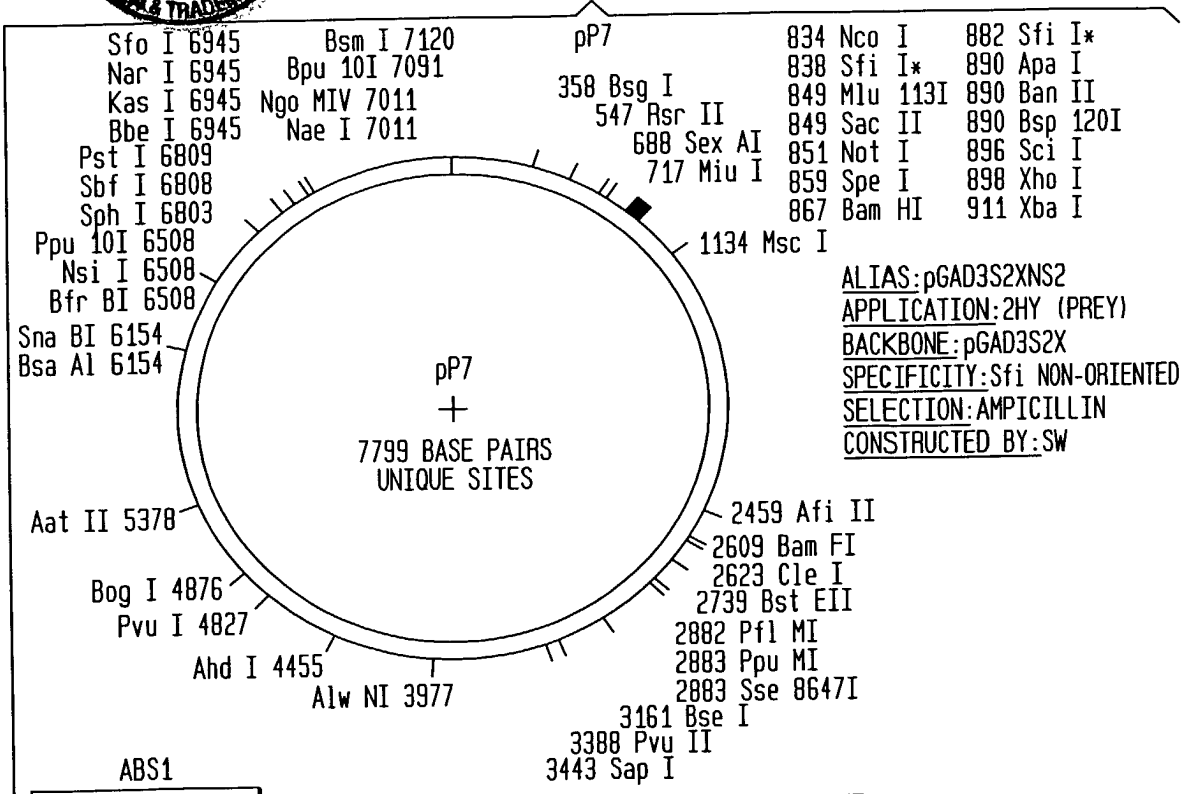
GGCCCGGTACCCAATTCGCCCTATAGTGAGTCGTATTACAATTCACTGGCCG TCGTTTTA CAACGTCGTGACTGGGAAAACCCTGATCTATGAAT

cgtagatactgaaaaacccc GCAAGTT cacttcaactgtgcatcgtg caccatctcaatttc

162 ABS2 53

ABS1 5' CGTTTGGAATCACTACAGG 3'
JC90 5' CGATGATGAAGATACCCCACCAAA 3'
162 5' GGGGTTTTTCAGTATCTACG 3'
ABS2 5' CACGATGCACAGTTGAAGT 3'
53 5' GAAATTGAGATGGTGCACGATGCAC 3'

FIG. 11



834 Nco I
838 Sfi I*
849 Mlu 113I
849 Sac II
851 Not I
859 Spe I
867 Bam HI
882 Sfi I*
890 Apa I
890 Ban II
890 Bsp 120I
896 Sci I
898 Xho I
911 Xba I

ALIAS:pGAD3S2XNS2
APPLICATION:2HY (PREY)
BACKBONE:pGAD3S2X
SPECIFICITY:Sfi NON-ORIENTED
SELECTION:AMPICILLIN
CONSTRUCTED BY:SW

ABS1

cgtttggaatcacagg GATGTTTAATACCACTACAATGGATGATGTATATAACTATCTATT

JC90

cgatgatgaagataccccaccaaa CCCAAAAAAAAGAGATCCTAGAACTA

Sfi I Sac II Spe I Bam HI

GCC ATG GCC GCA GGG GCC GCG GCC GCA CTA GTG GGG ATC C

Nco I Not I

STOP Sfi I Xho I Xba I

TT AAT TAA GGG CCA CTG GGG CCC CTC GAG TAG CTA GTG TCT AGA

STOP STOP STOP

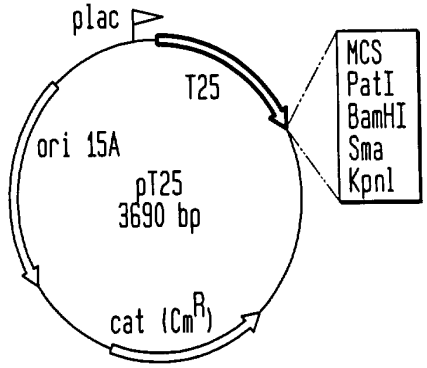
GGCCCGGTACCCAATTCGCCCTATAGTGAGTCGTATTACAATTCACTGGCCG TCGTTTTA CAACGTCGTGACTGGGAAAACCCTGATCTATGAAT

cgtagatactgaaaaacccc GCAAGTT cacttcaactgtgcatcgtg caccatctcaatttc

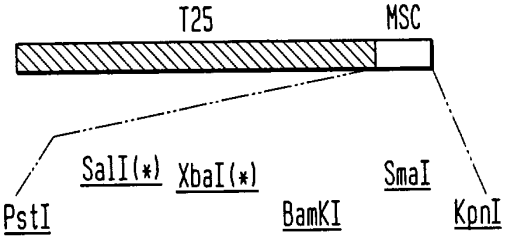
162 ABS2 53

ABS1 5' CGTTTGGAATCACTACAGG 3'
JC90 5' CGATGATGAAGATACCCCACCAAA 3'
162 5' GGGGTTTTTCAGTATCTACG 3'
ABS2 5' CACGATGCACAGTTGAAGT 3'
53 5' GAAATTGAGATGGTGCACGATGCAC 3'

FIG. 12



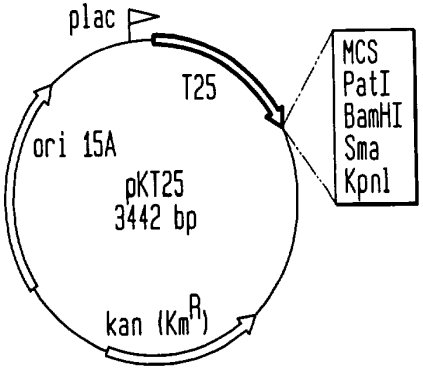
DERIVATIVE OF pACYC184



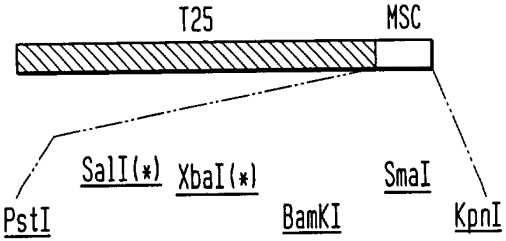
GCT GCA GGG TCG ACT CTA GAG GAT CCC CGG GTA CCT AAG TAA
CGA CGT CCC AGC TGA GAT CTC CTA GGG GCC CAT GGA TTC ATT

ALA ALA GLY SER THR LEU GLU ASP PRO ARG VAL PRO LYS STOP

(*) RESTRICTION SITES ARE NOT UNIQUE



DERIVATIVE OF pSU40



GCT GCA GGG TCG ACT CTA GAG GAT CCC CGG GTA CCT AAG TAA
CGA CGT CCC AGC TGA GAT CTC CTA GGG GCC CAT GGA TTC ATT

ALA ALA GLY SER THR LEU GLU ASP PRO ARG VAL PRO LYS STOP

(*) RESTRICTION SITE IS NOT UNIQUE

FIG. 13

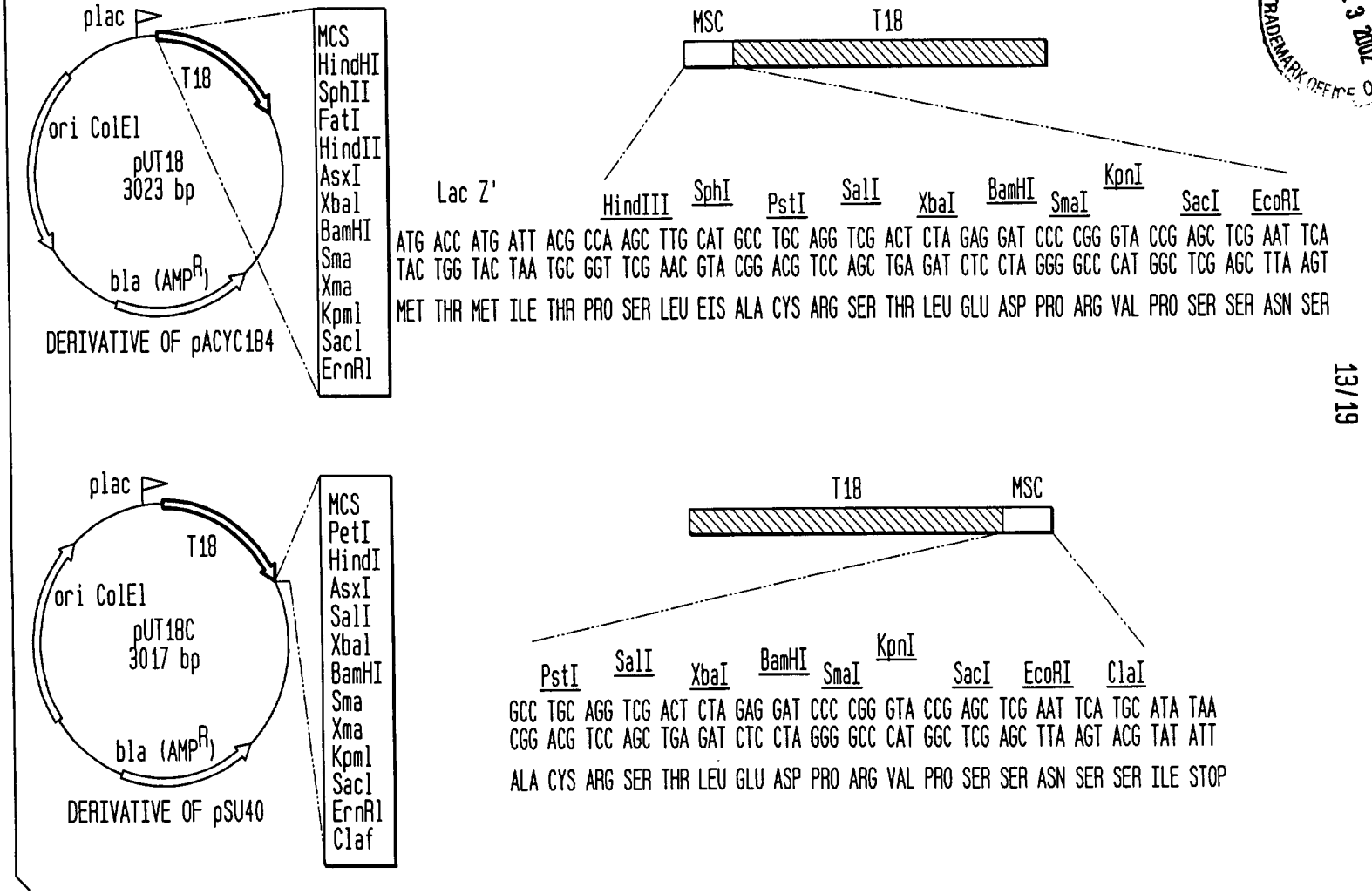


FIG. 14

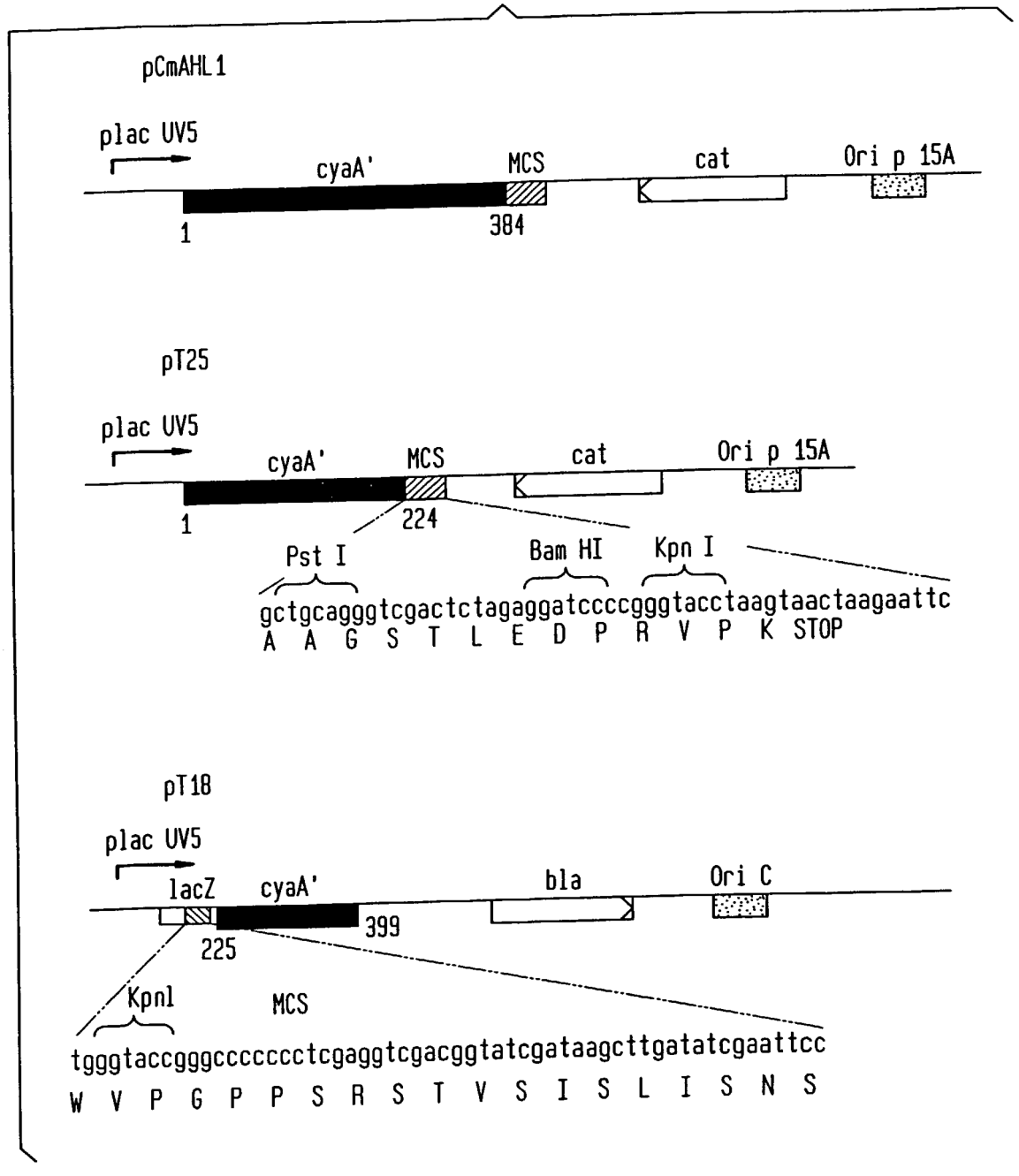
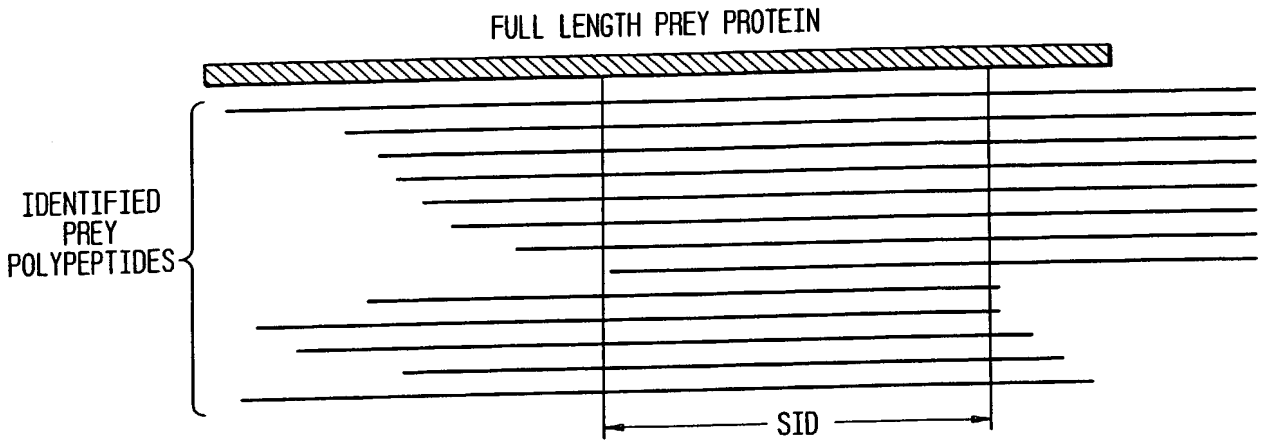


FIG. 15



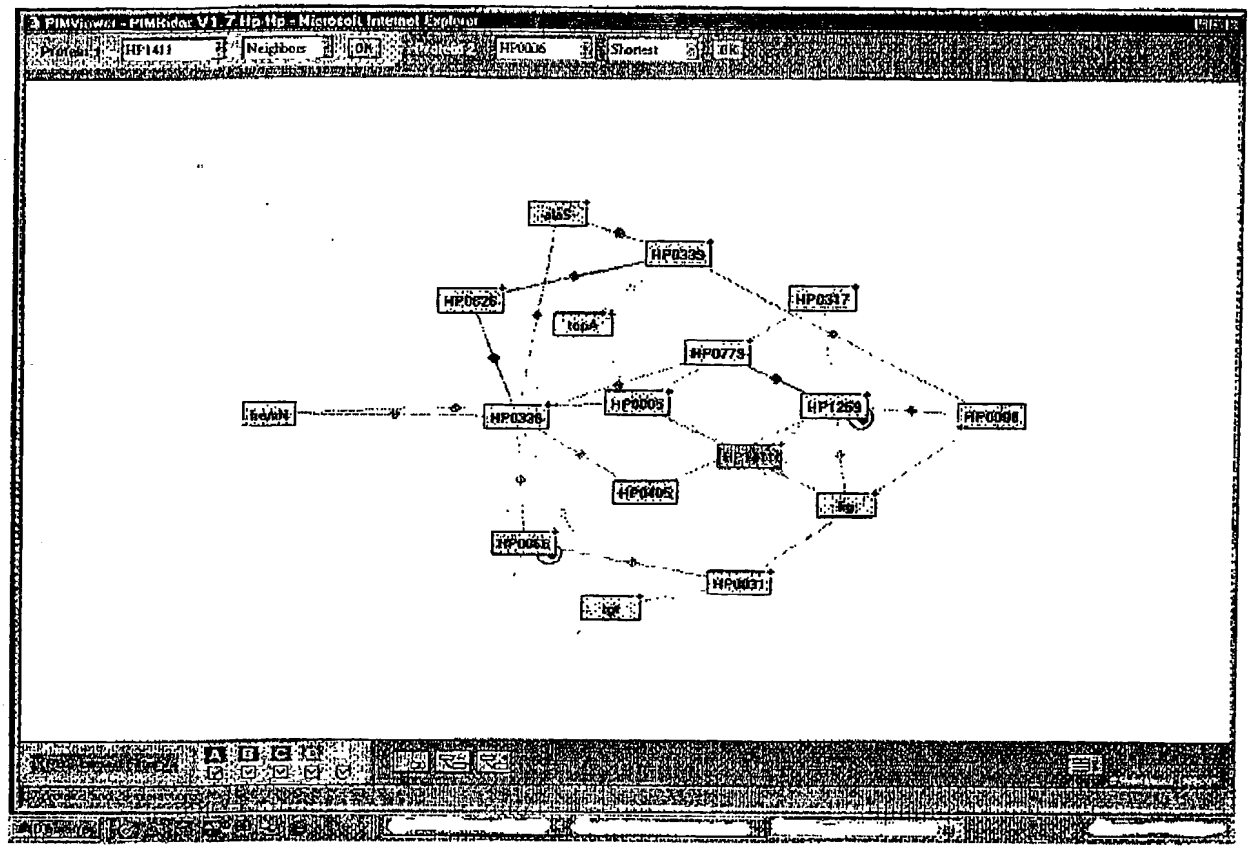


Figure 16 : Example of Protein Interaction Map

Fig. 16

FIG. 17

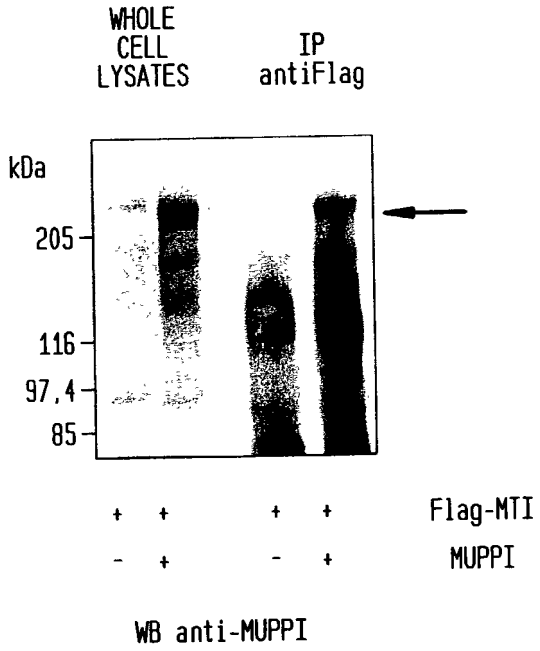


FIG. 18A

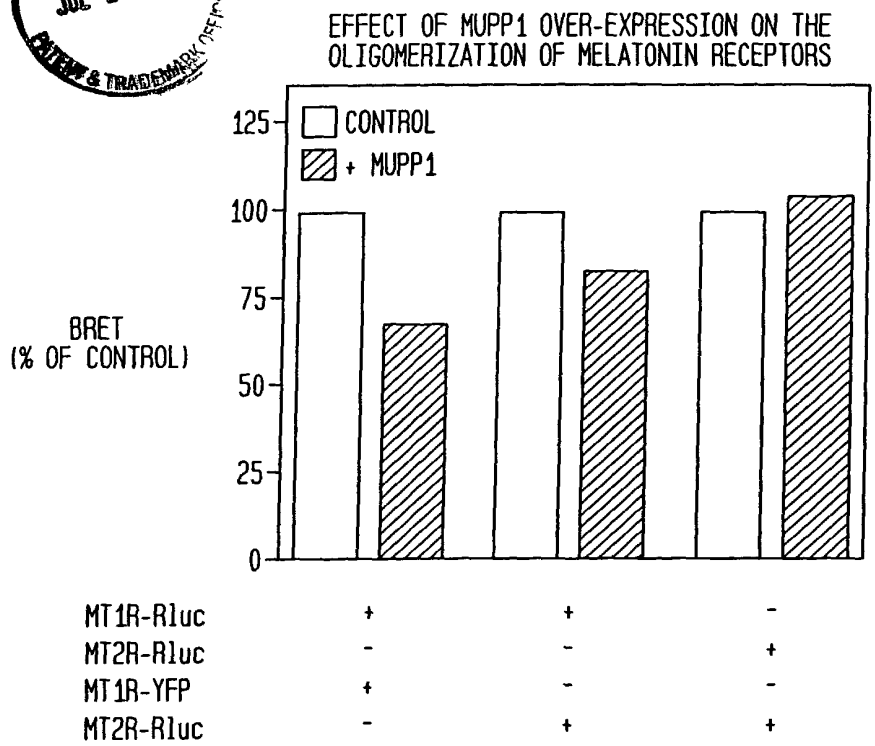


FIG. 18B

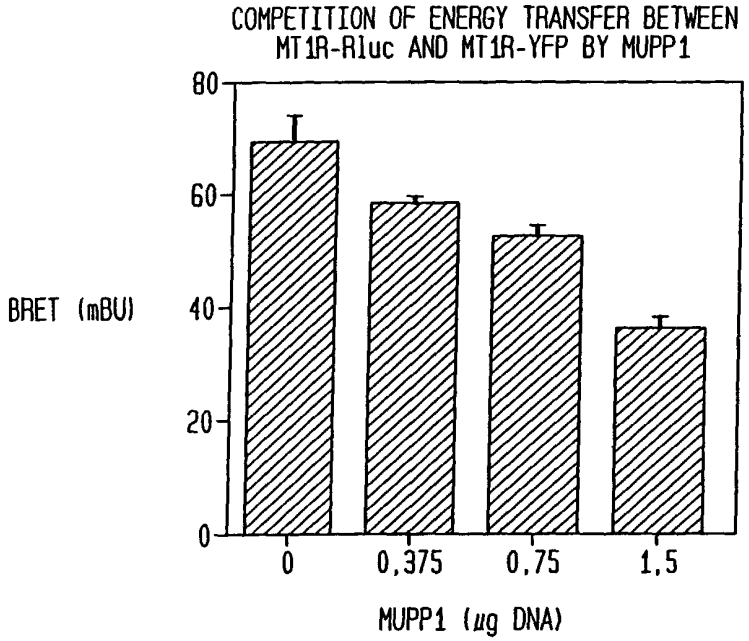


FIG. 19